



Additional Equipment List 2012

Heating Options

Steam: We actually recommend to get the boiler locally due to service and price advantages. You could try to give Sussman a call (ES 100 for the 500 and 600, ES 135 or larger for the 1000l). We have also worked with Columbia for gas boilers. Boilers are going to be around \$15---20.000 and another \$10---15.000 for installation and piping. This is something to think about if you want to go bigger than 600l or would like to run more applications based on steam.

*Recommended BTUs are 400l – 400.000 BTU 600l – 600.000
BTU 1000l – 1,000.000 BTU 1500l – 1,400.000 BTU

Electric Heating Elements:

We need about 75KW for the 400l still and 100KW for the 600l still. 150l --- Electric heating 36KW including digital controller – EUR 3.500 400l --- Electric heating 75KW including digital controller – EUR 5.000 600l --- Electric heating 100KW including digital controller – EUR 7.500 1000l --- Electric heating 140KW including digital controller – EUR 9.000 Installation costs for electric wiring usually are around \$5---10.000 (to be performed by your contractor)

Gas Burner and Waterbath:

400l – EUR 7.000 600l – EUR 8.000 1000l – EUR 11.000 Installation costs for gas burners range from \$5---10.000 (to be performed by your contractor)

GENERAL Sample Options for Additional Equipment

GENERAL – Option A (small cooling system for alcohol blending and HDPE Fermenters)		GENERAL – Option B (full glycol and stainless setup)	
Item	Quantity	Item	Quantity
Conipacs 1000l HDPE fermenters	10	Fermentation Tank 2450l glycol jacketed	3
Airlocks for Conipacs	10	Spray Nozzle / CIP in tank	3
300l tank system with self contained glycol unit (no piping of glycol necessary). Special cooling system for alcohol blending. 3KW	1	CIP Pump Multi Stage for tanks	1
600l tank jacketed for warming of product before bottling	1	1100l Blending Tank (jacketed – cooling) – open top	1
Stainless steel 100l tank Collection of tails and various distillates	10	1100l Blending Tank (jacketed – heating) – closed	1
Filtration 20x20 Plastic version	1	Alcohol hose - 25mtr	1
Vacuum bottle filler 4 spout 120V	1	Filtration Stainless version Includes extension rod	1
Filter sheets A20	1000	Explosion proof alcohol pump 1 1-4 inch 2000l /h	1
Filter sheets A80	250	Vacuum bottle filler 4 spout	1
Cleaning solution	10	Labeler (front/back) on rolls	1
Medi-Test	10	Note We can also provide an automated labeling / corking bottling line	
PH measurement	10	Filter sheets A20	1000
Tasting glasses	50	Filter sheets A80	250
Hoses and Fittings		Cleaning solution	10
		Medi-Test	10
		PH measurement	10
		Tasting glasses	50
		Hoses and Fittings	

SPECIAL Sample Options for Additional Equipment

Grain Option		Fruit Option	
Item	Quantity	Item	Quantity
Mash reaction tank 2000l Steam heated and jacketed for cooling with either water or glycol Includes double paddle agitator with 2.2KW motor	1	Fruit crusher	1
1200l	1	Depitter / Pulper	1
1500l	1	Rum Option / Spent Mash	
3000l	1	Item	Quantity
Electric heating (optional)	1	Eccentric Screw Pump	1
Gas heating (optional)	1		
Swing Hammer Mill – 7.5KW	1		
Swing Hammer Mill – 12KW	1		
Impeller Pump			
IP 10 – 2.2KW	1		

Not included:

Pallet Scale for blending tank

Glycol system

Shipping - charged directly by shipping company, only actual cost will be passed on --- 40ft container EUR 6000 (estimate)



Kothe Distilling Technologies - 5121 N
Ravenswood Ave - 60640 Chicago

Quote No.: QUO250
Issue Date: 10.01.2012
valid till: ..
issued by: Robert Birnecker
Phone: 312 878 7766

Quotation

Pos	Item	Qty.	Unitprice	Tax	Total
1	Kothe Mashtank 3000l Steam heated and jacketed for cooling with either water or glycol Includes double paddle agitator with 3KW motor Includes variable frequency drive Optional for this item (if not steam heated) Electric heating elements EUR 2500.00 Electric heating elements EUR 4500.00	1,00	16.500,00	(0.00 %) 0,00	16.500,00
2	Kothe Mashtank 2000l Steam heated and jacketed for cooling with either water or glycol Includes double paddle agitator with 3KW motor Includes variable frequency drive Optional for this item (if not steam heated) Electric heating elements EUR 2500.00 Electric heating elements EUR 4500.00	1,00	14.500,00	(0.00 %) 0,00	14.500,00
3	Kothe Mashtank 1500l Steam heated and jacketed for cooling with either water or glycol Includes double paddle agitator with 2.2KW motor Includes variable frequency drive Optional for this item (if not steam heated) Electric heating elements EUR 2500.00 Electric heating elements EUR 4500.00	1,00	13.500,00	(0.00 %) 0,00	13.500,00
4	Kothe Mashtank 1200l Steam heated and jacketed for cooling with either water or glycol Includes double paddle agitator with 2.2KW motor Includes variable frequency drive Optional for this item (if not steam heated) Electric heating elements EUR 2500.00 Electric heating elements EUR 4500.00	1,00	12.500,00	(0.00 %) 0,00	12.500,00

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Beltstrasse 3
73054 Eisingen
Germany

Kreissparkasse Goeppingen
Tax ID#: DE 145 509 888
BIC: GOPS DE 6G
IBAN: DE 8761050000003237454

Pos	Item	Qty.	Unitprice	Tax	Total
5	3300l Stainless Fermenter Jacketed Top opening Analog thermometer Mounting bracket for floor Four feet D=1430mm; H=2510mm	1,00	4.700,00	(0.00 %) 0,00	4.700,00
6	2450l Stainless Fermenter Jacketed Top opening Analog thermometer Mounting bracket for floor Four feet diameter: 1430mm; height: 2010mm weight: 165kg	1,00	3.800,00	(0.00 %) 0,00	3.800,00
7	CIP Multistage Pump for Fermenters	1,00	1.600,00	(0.00 %) 0,00	1.600,00
8	Rotating Spray Nozzle - Fermenter Tank	1,00	500,00	(0.00 %) 0,00	500,00
9	Conipac HDPE Fermenter Fill Volume 1000l	1,00	625,00	(0.00 %) 0,00	625,00
10	Conipac Airlock	1,00	20,00	(0.00 %) 0,00	20,00
11	1100l Stainless Tank (Blending Tank) 1100l tank for blending - open top Digital temperature probe Diameter: 953mm Height: 1820mm Three Feet Weight: 120kg	1,00	2.600,00	(0.00 %) 0,00	2.600,00
12	1100l Stainless Tank (Finished Product) 1100l tank jacketed for warming of product before bottling Closed top Digital temperature probe, Level indicator Diameter: 953mm Height: 1970mm Three Feet Weight: 120kg	1,00	2.500,00	(0.00 %) 0,00	2.500,00
13	Pallet Scale	1,00	3.300,00	(0.00 %) 0,00	3.300,00
14	600l Stainless Tank (Finished Product) 600l tank jacketed for warming of product before bottling	1,00	2.000,00	(0.00 %) 0,00	2.000,00
15	Density Measurement DMA 35	1,00	2.750,00	(0.00 %) 0,00	2.750,00
16	300L Storage Tank	1,00	500,00	(0.00 %) 0,00	500,00
17	100l Stainless Tank Small stainless steel container - 100l	1,00	200,00	(0.00 %) 0,00	200,00

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18	50l Stainless Tank Small stainless steel container - 50l	1,00	125,00	(0.00 %) 0,00	125,00
19	Fruit Depitter Suitable for all fruits Removes pits and stems 5000lb of fruit per hour Complete stainless steel construction Note: Pears and apples need to be crushed with a fruit masher first while plums and apricots first need to be slightly crushed with an eccentric screw pump.	1,00	12.000,00	(0.00 %) 0,00	12.000,00
20	Fruit Crusher - Advanced Suitable for apples and pears 5KW motor 208V, 230V or 460V three phase 10000lb of fruit per hour Complete stainless steel constructio	1,00	3.200,00	(0.00 %) 0,00	3.200,00
21	Fruit Crusher - Simple Suitable for apples and pears 2,2KW motor 220V single phase European 220V - needs small converter 2000lb of fruit per hour	1,00	1.400,00	(0.00 %) 0,00	1.400,00
22	Swinger Hammer Mill - 12KW 12 KW motor Fan blower included - 3 inch connection	1,00	6.100,00	(0.00 %) 0,00	6.100,00
23	Swinger Hammer Mill - 7.5KW 7.5 KW motor Fan blower included - 3 inch connection	1,00	5.400,00	(0.00 %) 0,00	5.400,00
24	Eccentric Screw Pump SP5 Capacity: 5000/10000l water/h 700/1400 rpm, 1,0/1,9 KW ON REQUEST: Stainless version (heat resistant, use for spent mash) EUR 100 additional	1,00	3.100,00	(0.00 %) 0,00	3.100,00
25	Impeller Pump - IP10 IP 10 - 1.5KW 1 1/4"; 3-phase Capacity: 10000 l water/h 1400 rpm INCLUDES full replacement part set	1,00	2.000,00	(0.00 %) 0,00	2.000,00
26	Impeller Pump - IP3 IP 3 - 0.75KW 1 1/4"; 1-phase, European 220V - needs small converter Capacity: 5000 l water/h 1400 rpm INCLUDES full replacement part set	1,00	1.350,00	(0.00 %) 0,00	1.350,00
27	Frequency Drive up to 3KW - one item at a time	1,00	1.650,00	(0.00 %) 0,00	1.650,00

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28	Explosion proof alcohol pump Explosion proof alcohol pump 1 1-4 inch 2000l /h 1.5KW (wired to available power)	1,00	2.900,00	(0.00 %) 0,00	2.900,00
29	Hose - Alcohol hose Up to 96% alcohol per meter	1,00	27,00	(0.00 %) 0,00	27,00
30	Hose - Heat resistant (spiral) per meter heat resistant (spent mash)	1,00	40,00	(0.00 %) 0,00	40,00
31	Hose - Mash hose (red spiral) Use for cold mash Alcohol content up to 28% Red spirals for stability max. 8 bar pressure per meter	1,00	12,00	(0.00 %) 0,00	12,00
32	Hose - Mash hose (spiral) eccentric screw pump Use for cold mash Alcohol content up to 28% Red spirals for stability max. 8 bar pressure per meter	1,00	17,00	(0.00 %) 0,00	17,00
33	Hose - Mash hose (stainless spiral) Use for cold mash Alcohol content up to 28% Red spirals for stability max. 8 bar pressure per meter	1,00	17,00	(0.00 %) 0,00	17,00
34	Vacuum bottle filler 4 spout 120V Bottle Filler No contact of distillate with pump	1,00	3.100,00	(0.00 %) 0,00	3.100,00
35	Label Applicator 120V Front and back labels Labels must be round, slight taper could be ok	1,00	2.000,00	(0.00 %) 0,00	2.000,00
36	Filtration - 20x20 Stainless Filtration Stainless version (plate frames also in stainless) 9 plates standard Includes extension rod for lower amount of plates pressure gauge No filter pump included / explosion proof alcohol pump recommended	1,00	2.600,00	(0.00 %) 0,00	2.600,00
37	Filtration - 20x20 Plastic Filtration Smaller version Includes filter pump Note: 220V European electricity, converter needed to 110V	1,00	1.300,00	(0.00 %) 0,00	1.300,00
38	Filter sheet - A20 Fine filtration	1,00	1,20	(0.00 %) 0,00	1,20

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Pos	Item	Qty.	Unitprice	Tax	Total
39	Filter sheet - A80 Coarse filtration	1,00	1,20	(0.00 %) 0,00	1,20
40	Small Glycol System 300l tank system with self contained glycol unit (no piping of glycol necessary). Special cooling system for alcohol blending. 3KW cooling unit	1,00	8.500,00	(0.00 %) 0,00	8.500,00
41	Tasting Glasses	1,00	4,00	(0.00 %) 0,00	4,00
42	Testing - Cleaning Solution	1,00	50,00	(0.00 %) 0,00	50,00
43	Testing - Medi-Test Test for remaining sugar 50 strips per package	1,00	14,00	(0.00 %) 0,00	14,00
44	Testing - PH-Strip Test for PH level 100 strips per package	1,00	20,00	(0.00 %) 0,00	20,00

Subtotal:	139.023,40
Total (in €):	139.023,40

This quote is valid for three months from the date of creation unless grave changes in raw material costs occur.
All orders by Kothe Distilling Technologies directly shall be submitted to Kothe Destillationstechnik and shall be subject to acceptance by Kothe Destillationstechnik.

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